

FIG. 1

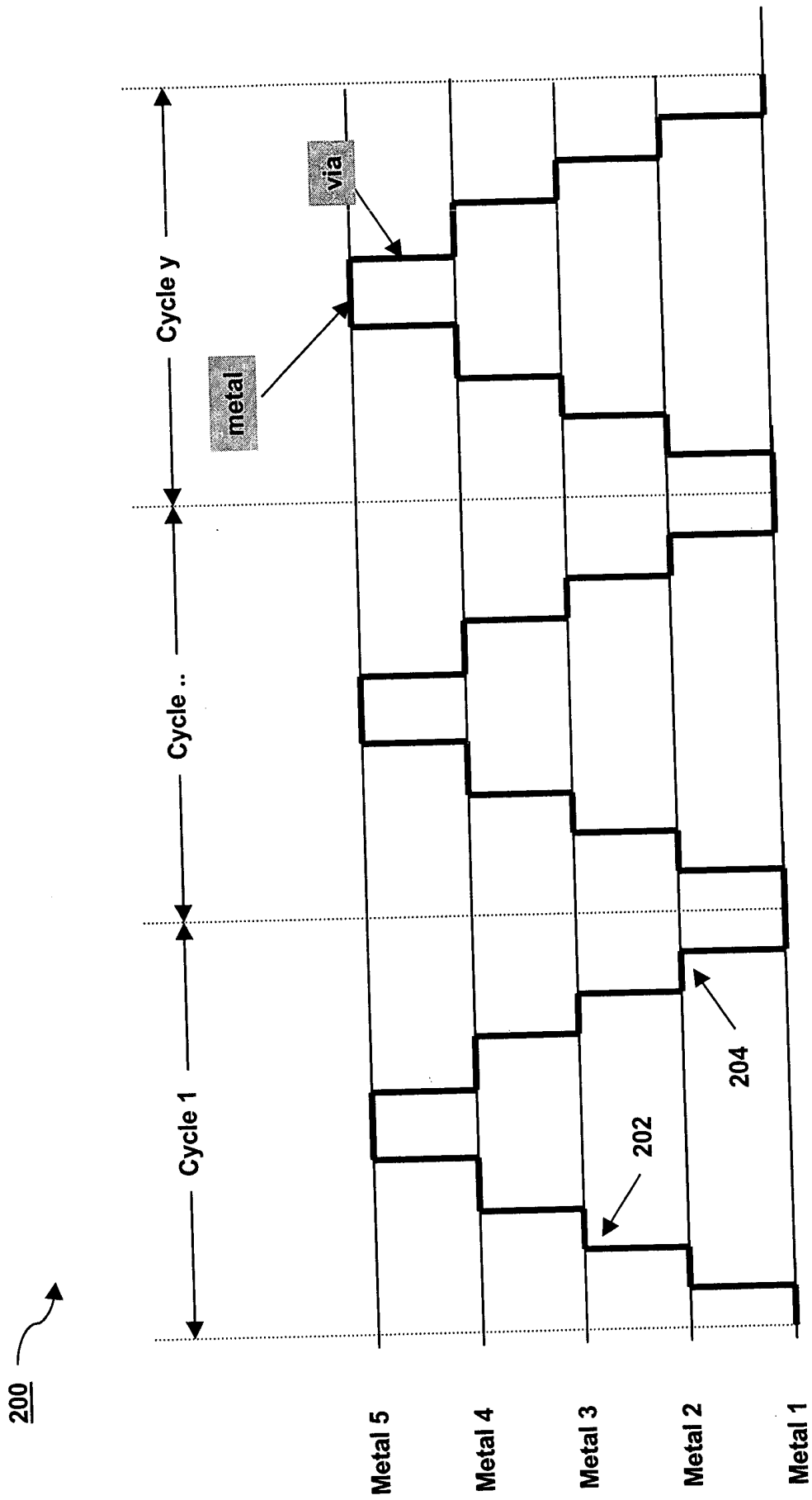


FIG. 2

300

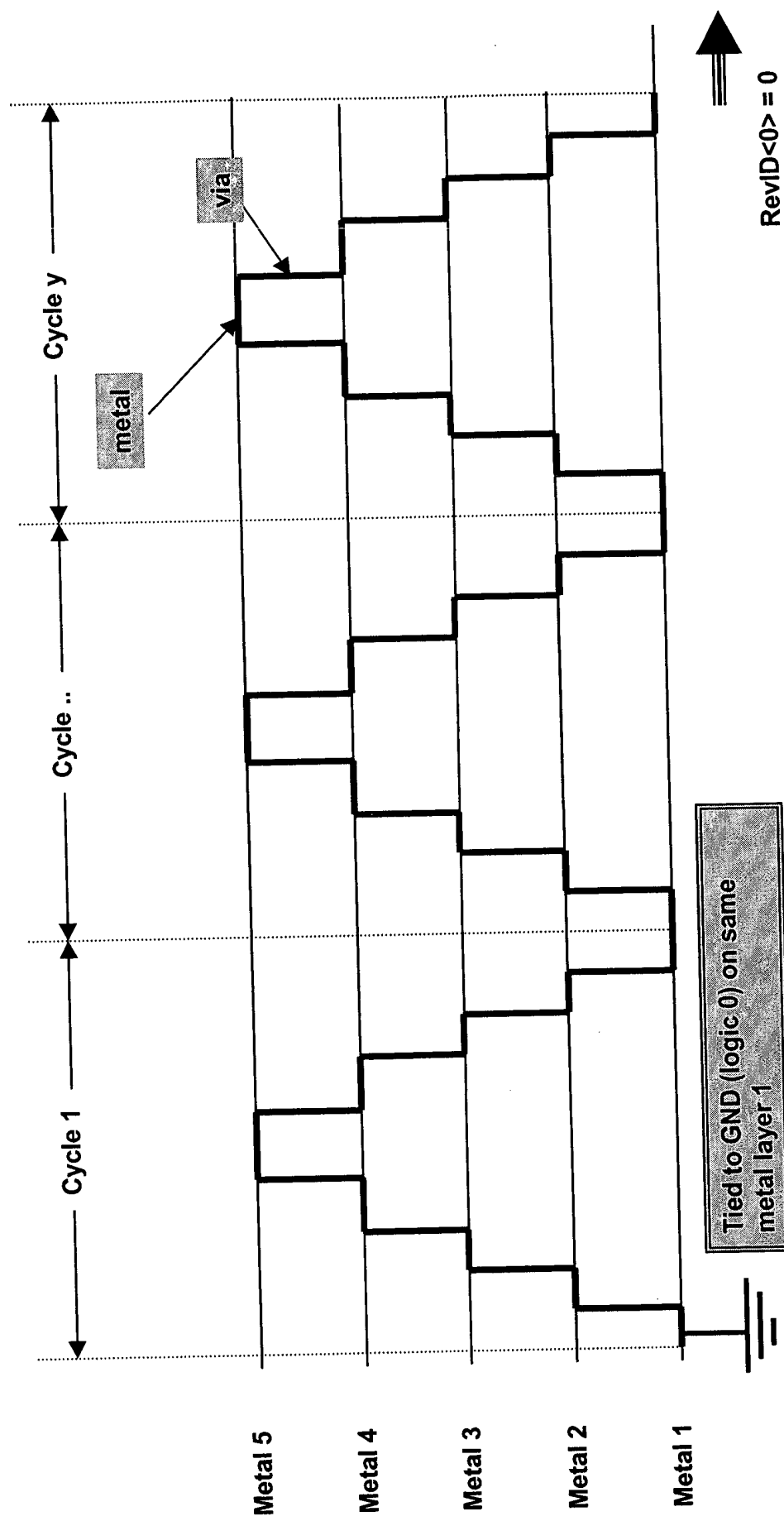
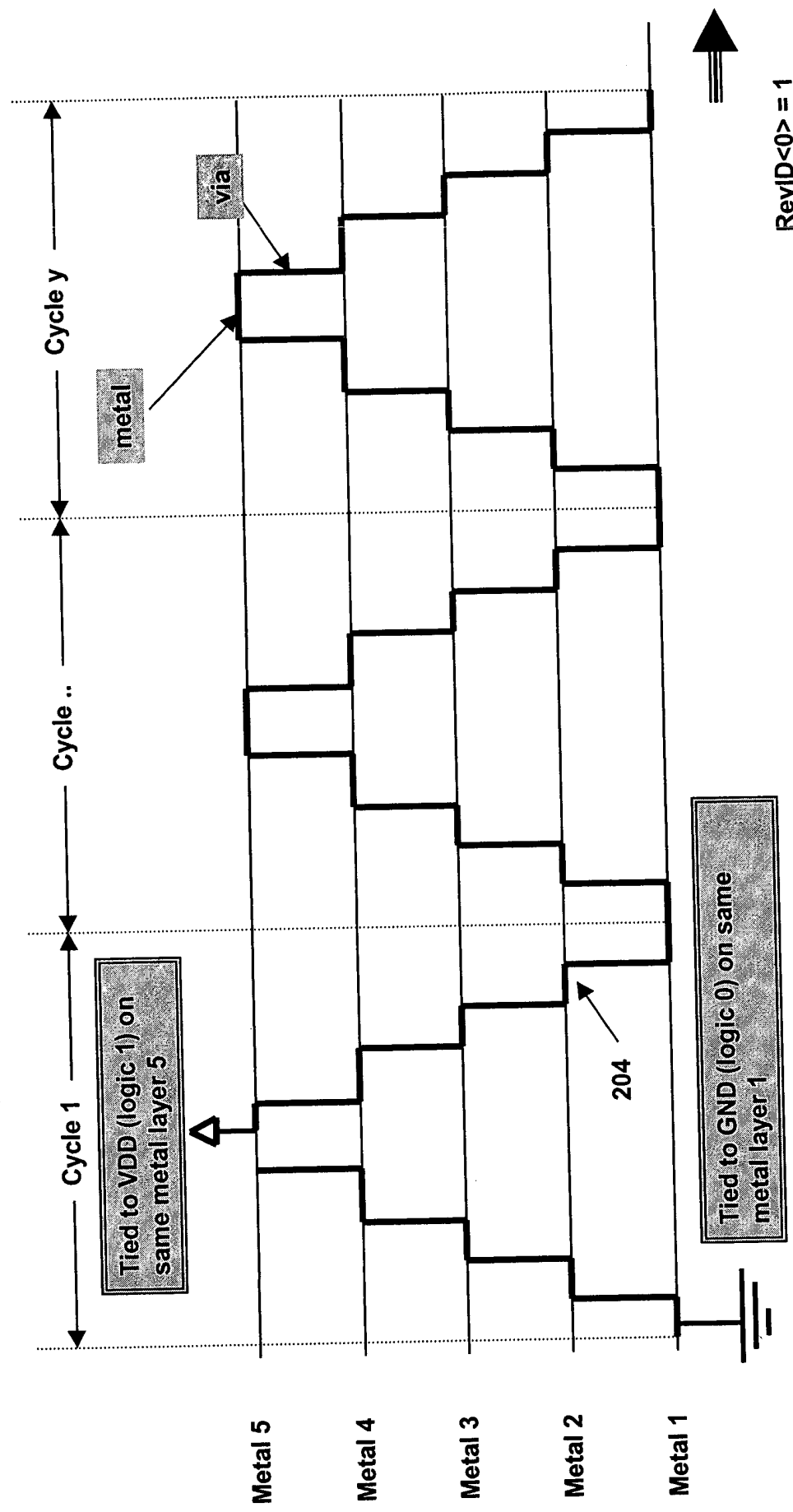


FIG. 3A

300



RevID<0> = 1

FIG. 3B

300

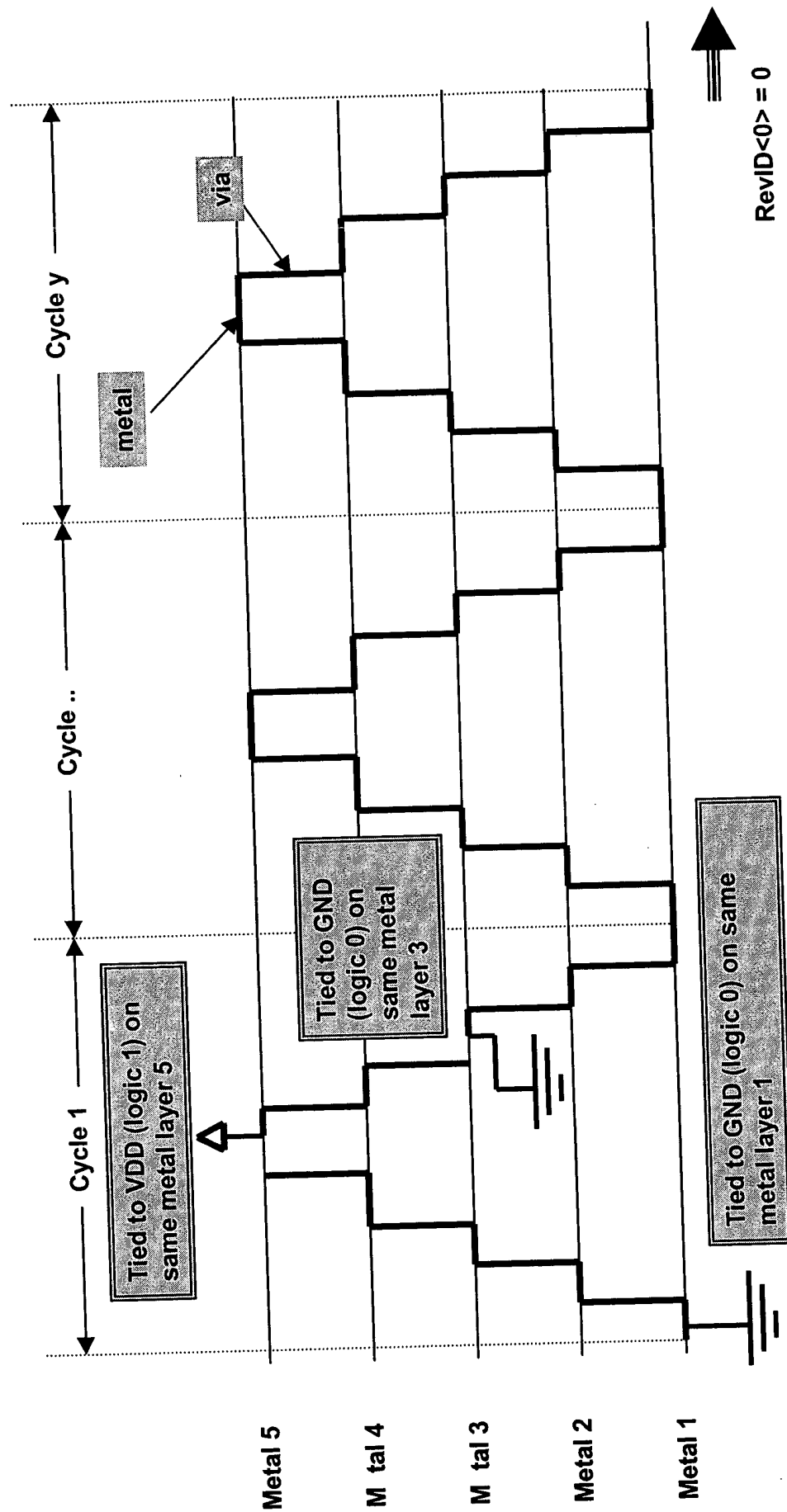


FIG. 3C

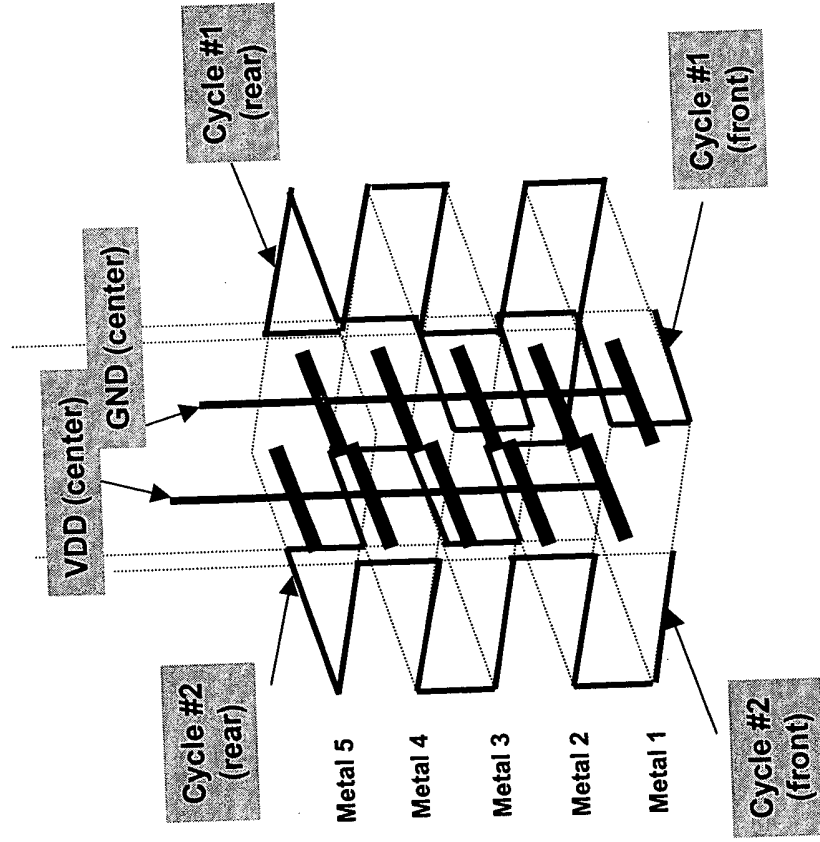


FIG. 4

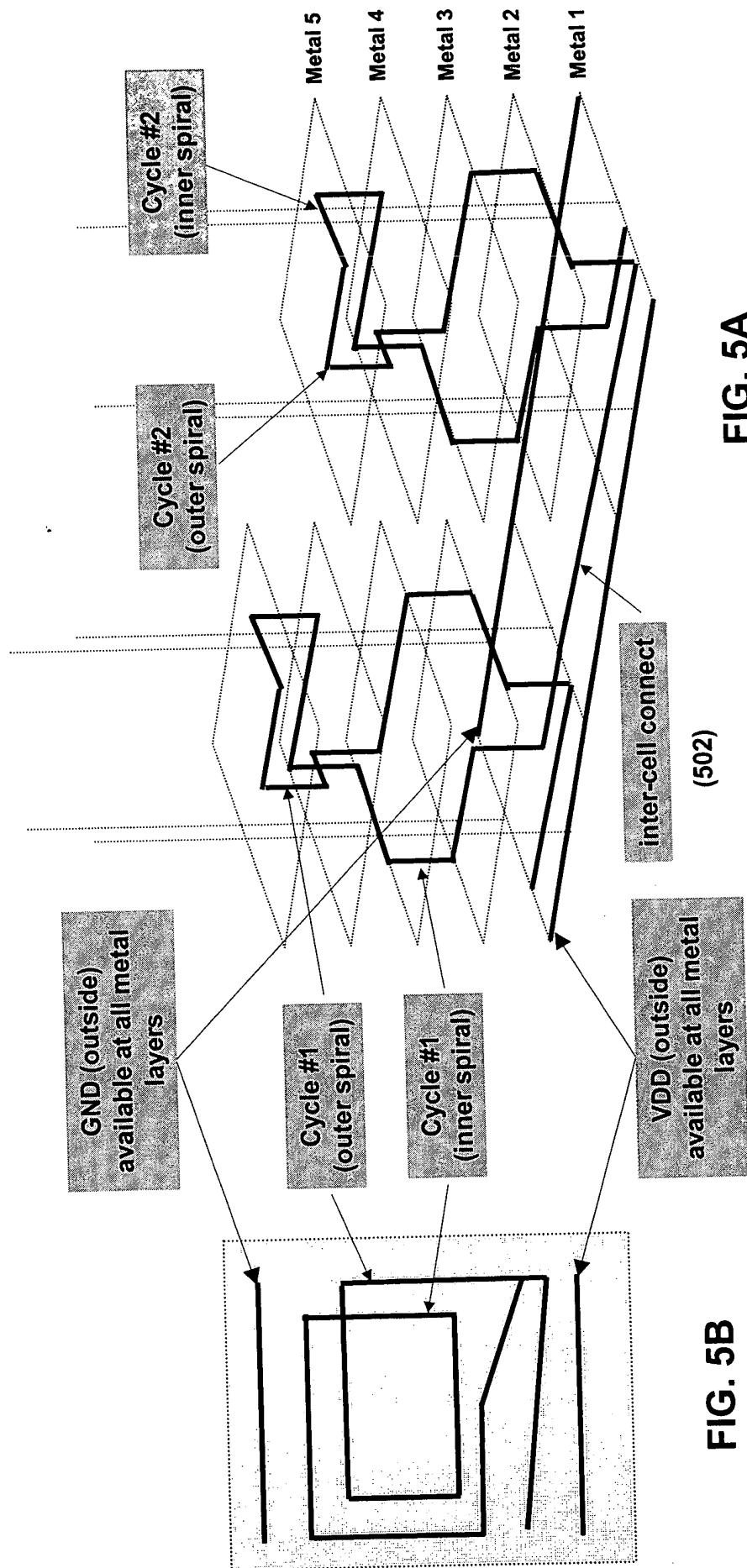


FIG. 5A

FIG. 5B

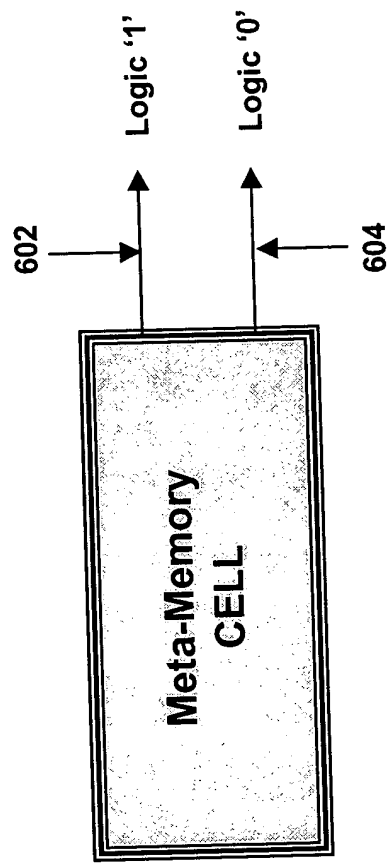


FIG. 6

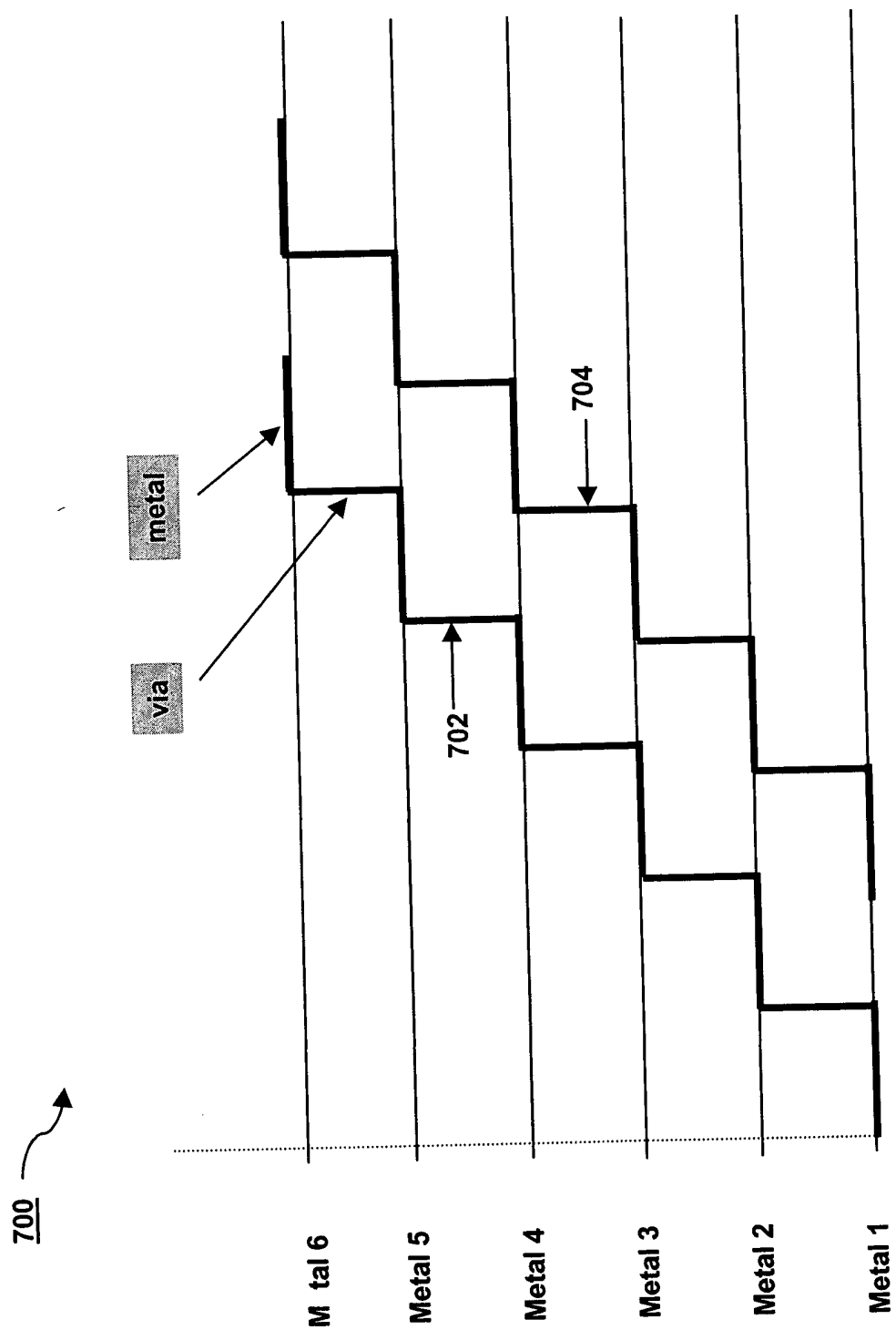


FIG. 7A

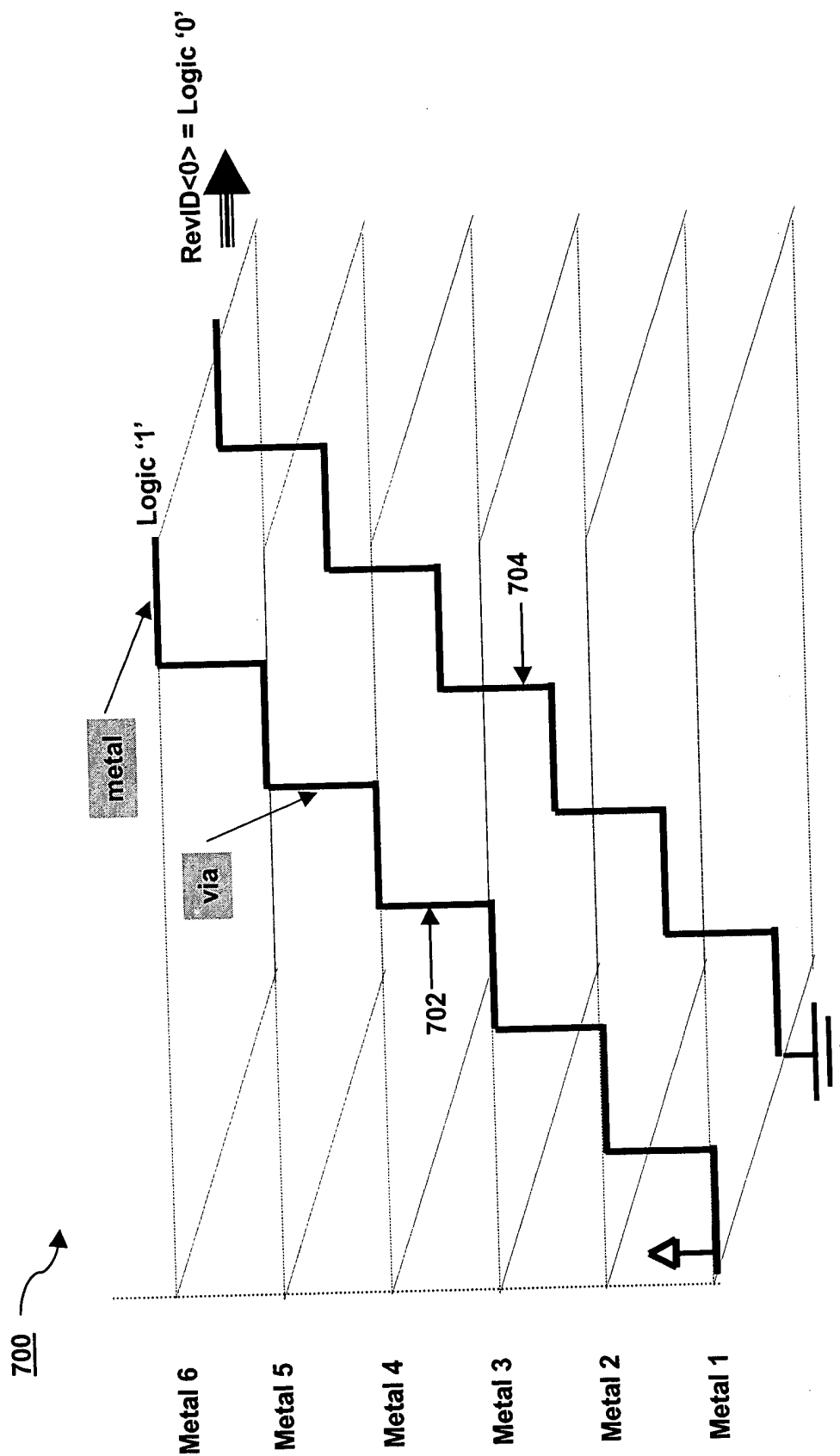


FIG. 7B

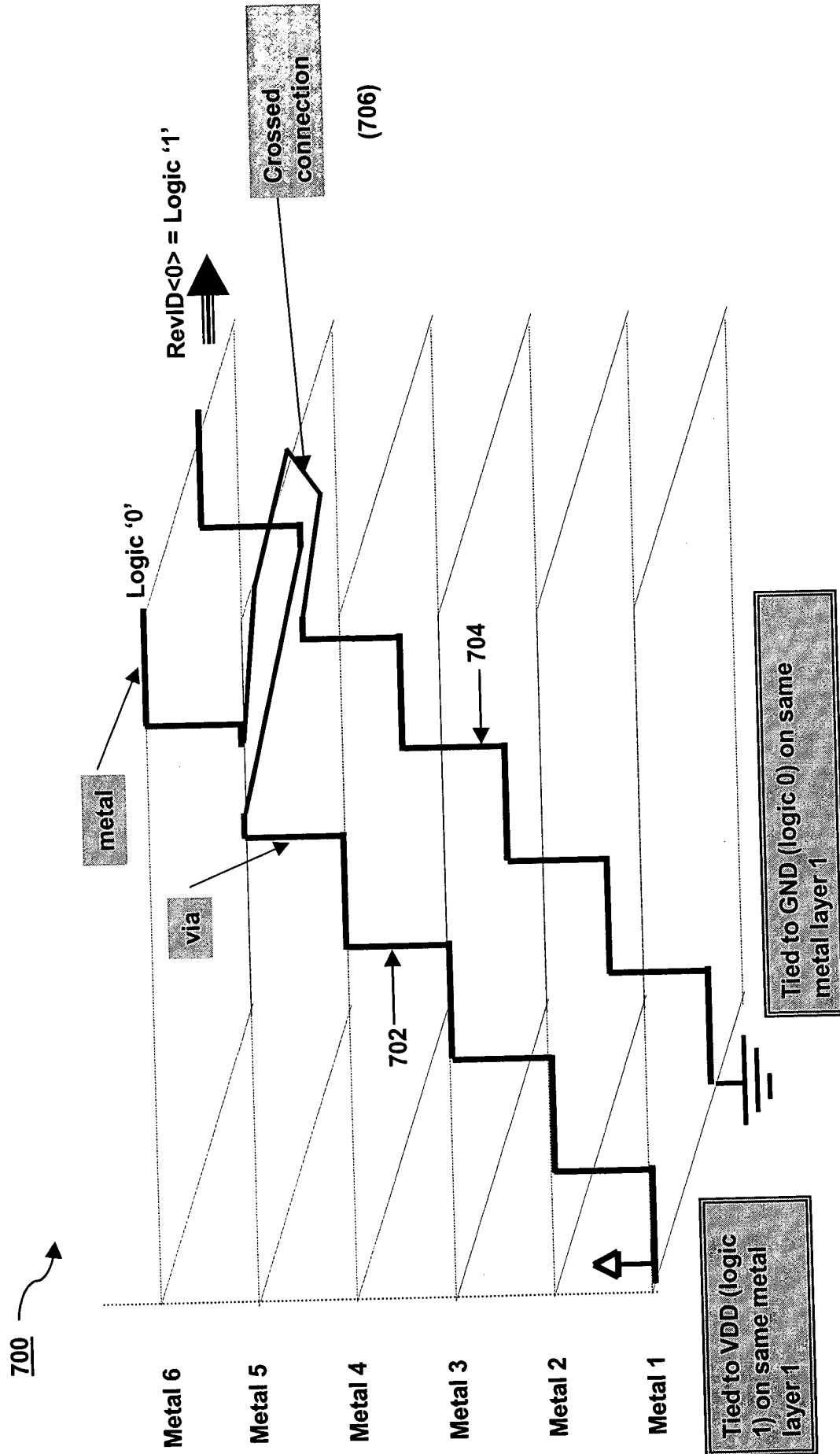


FIG. 7C

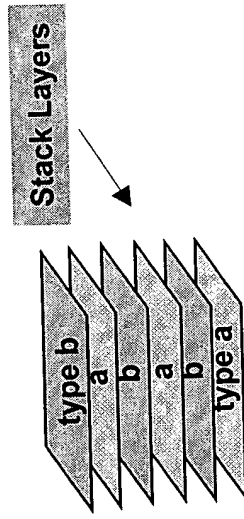


FIG. 8A

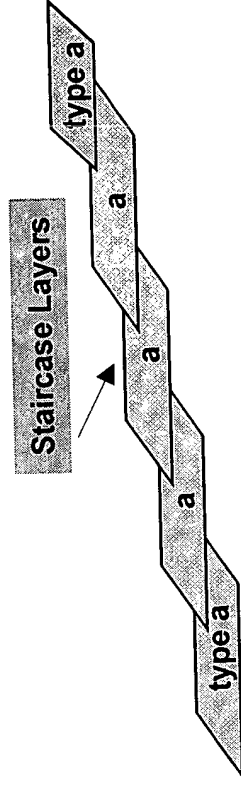


FIG. 8B

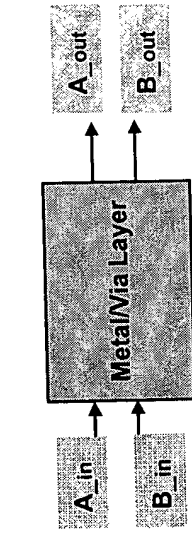


FIG. 9A

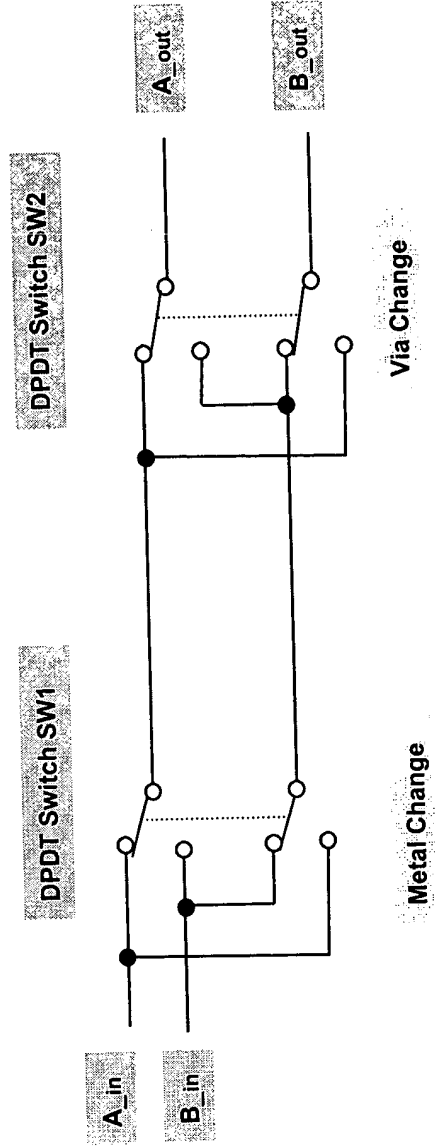


FIG. 9B

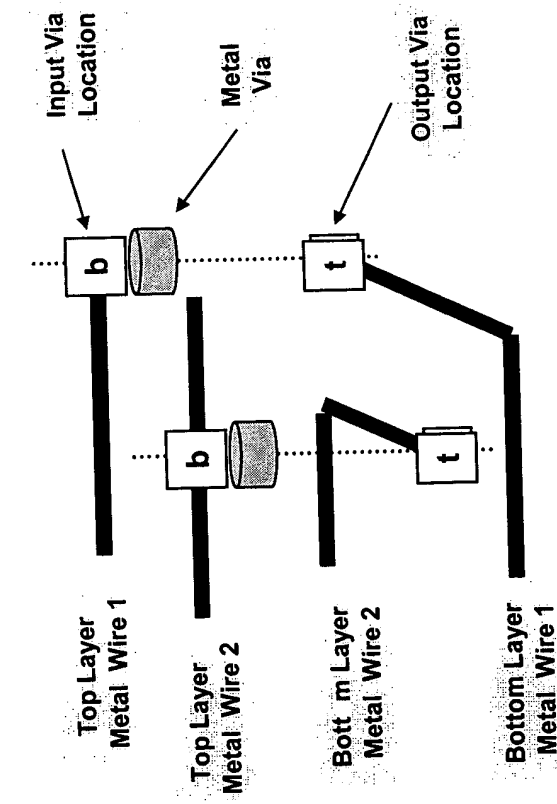


FIG. 9C

2 disconnects
2 connects

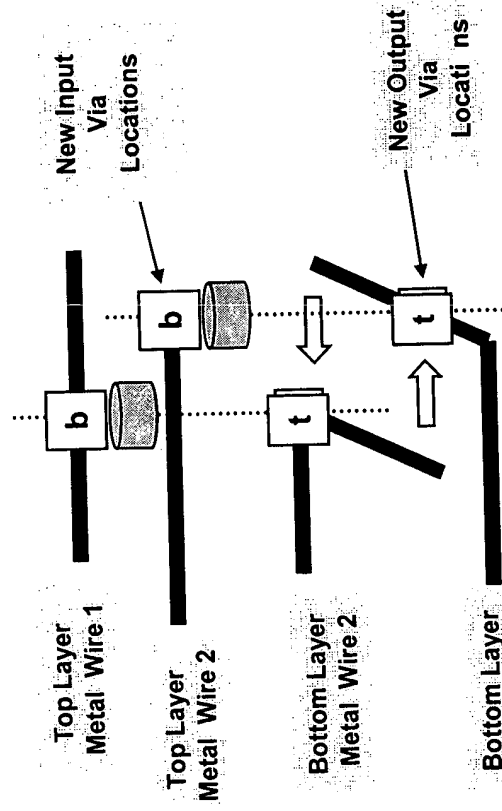


FIG. 9D

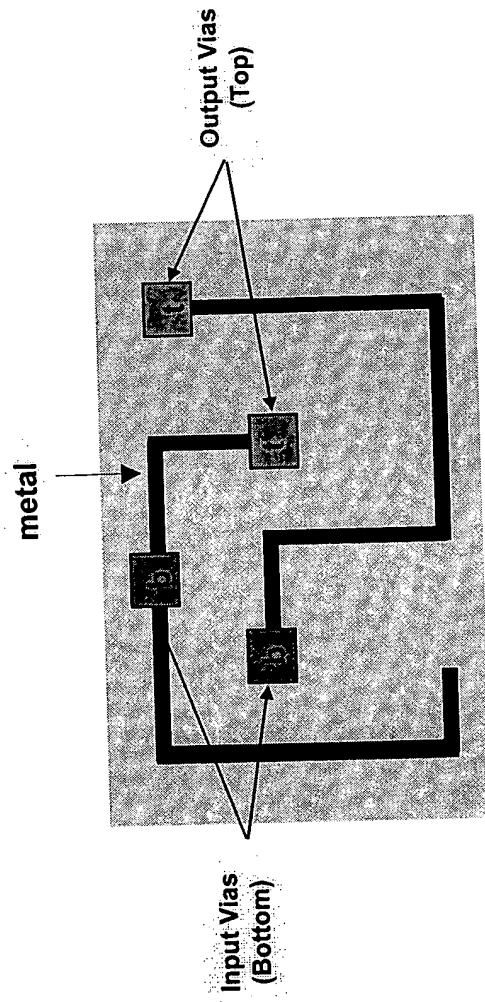


FIG. 10A

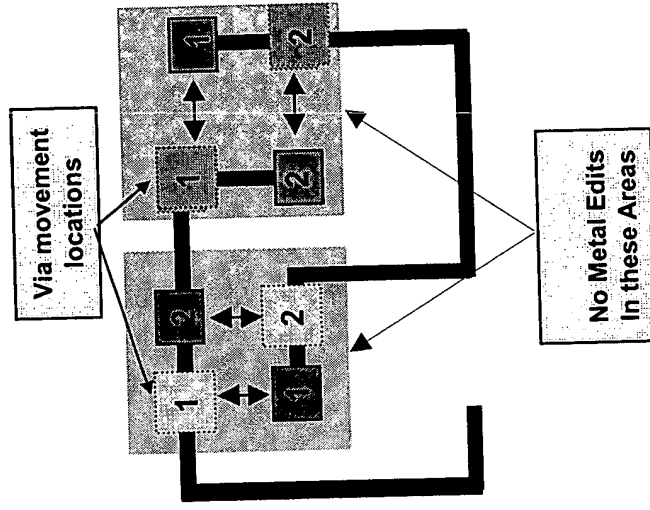
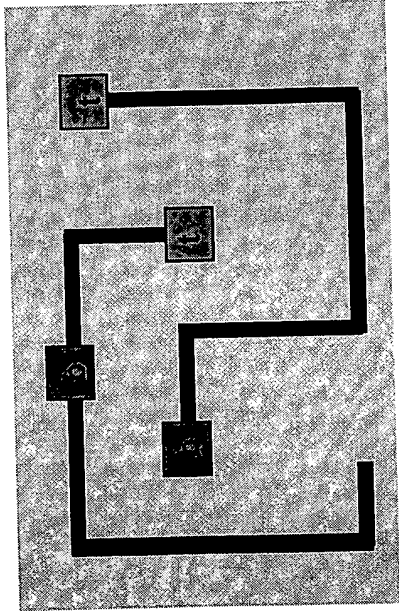


FIG. 10B

FIG. 11A



Used in metal
layers
1,3,5,7,...
(odd)

Basic Pattern



Basic Pattern w/ Metal Change
(2 cuts, 2 jumps)

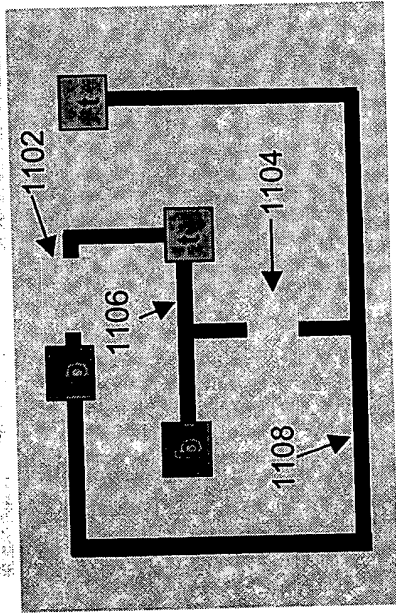
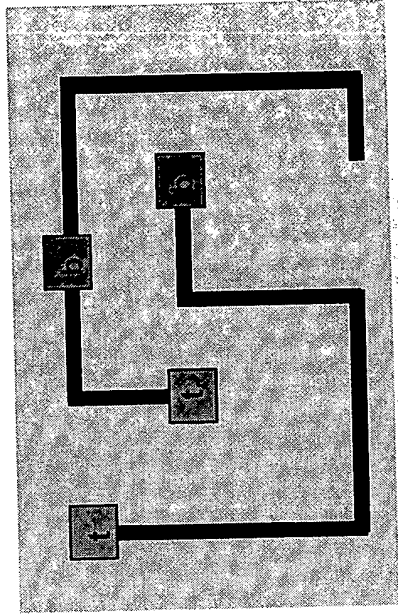


FIG. 11B

FIG. 11C



Used in metal
layers
2,4,6,...
(even)

Flip Basic Pattern



Flip Basic Pattern w/ Metal Change
(2 cuts, 2 jumps)

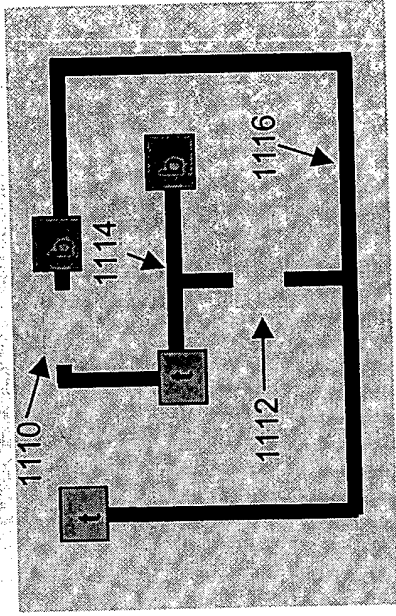
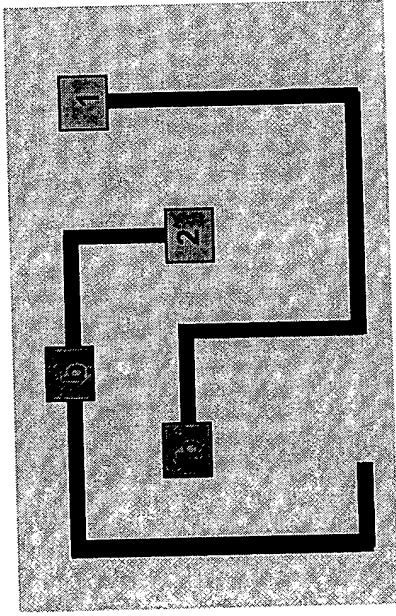


FIG. 11D

FIG. 12A



Basic Pattern



Basic Pattern w/ Via Change
(2 disconnects, 2 connects)

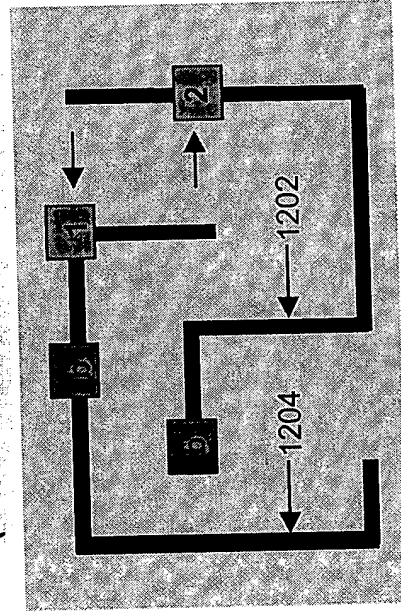
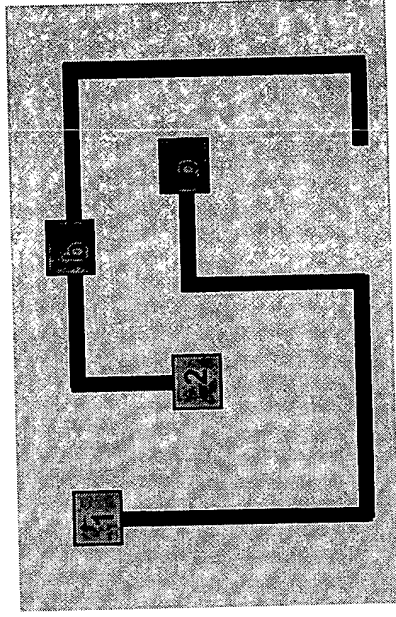


FIG. 12B

FIG. 12C



Flip Basic Pattern



Flip Basic Pattern w/ Via Change
(2 disconnects, 2 connects)

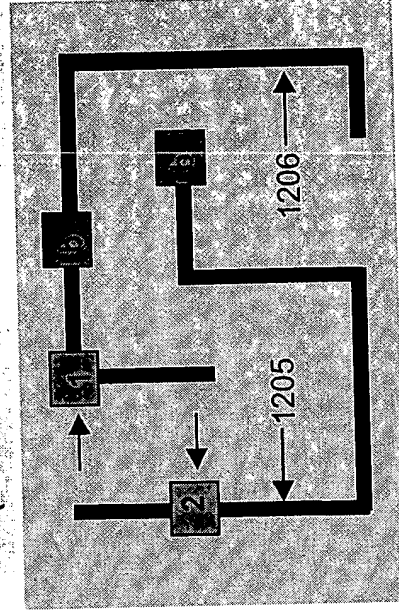


FIG. 12D

Basic Pattern

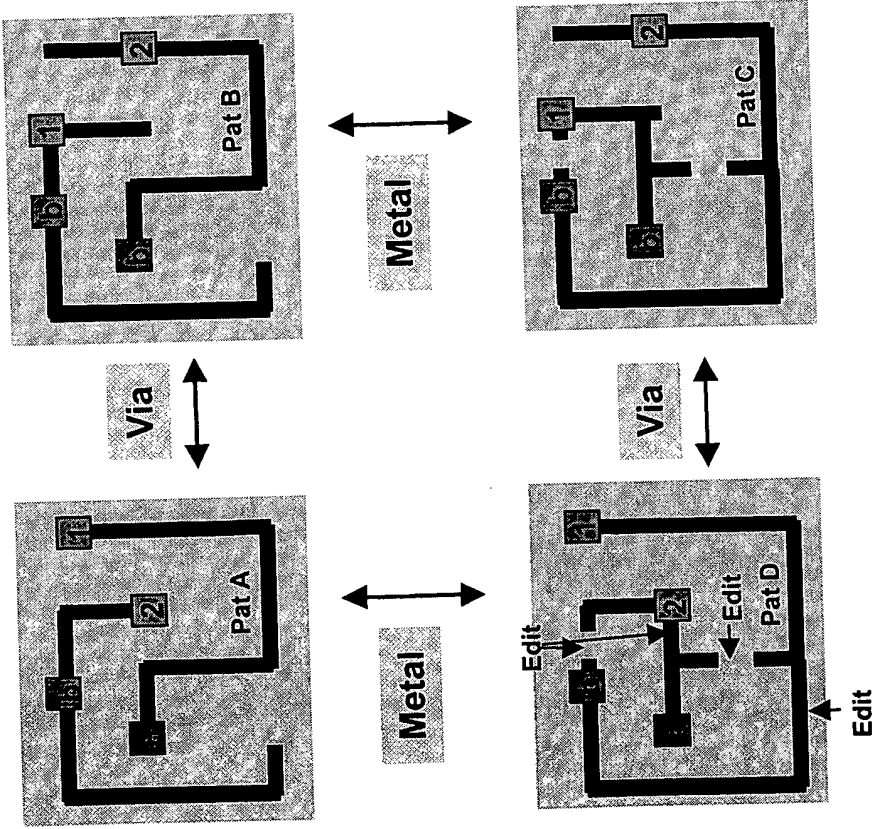


FIG. 13

Flip Basic Pattern

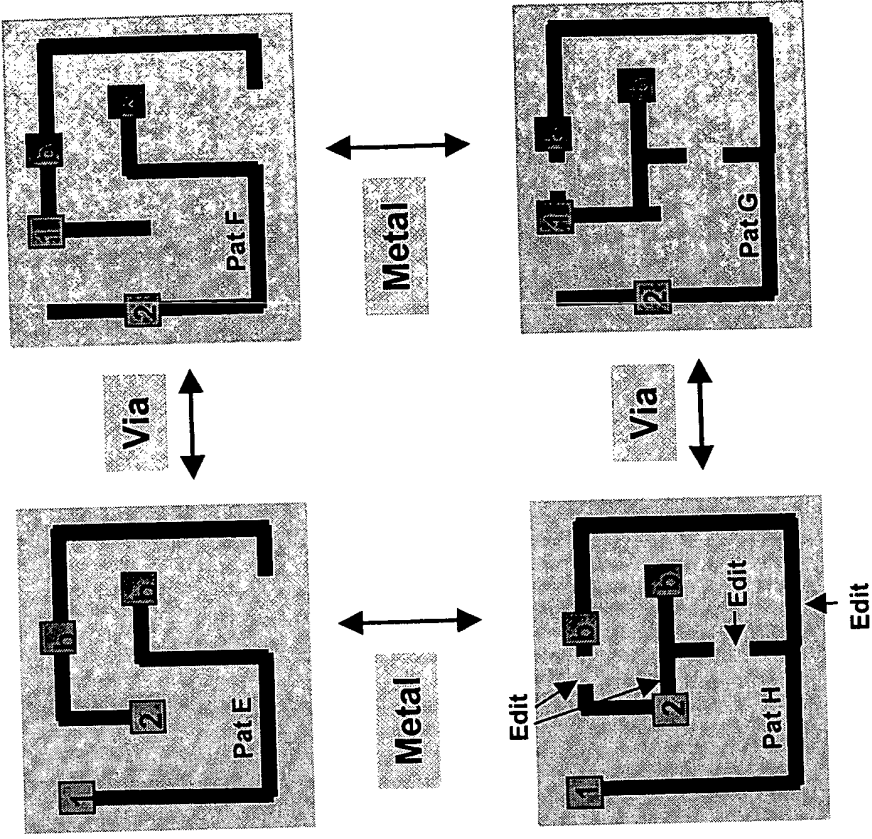


FIG. 14

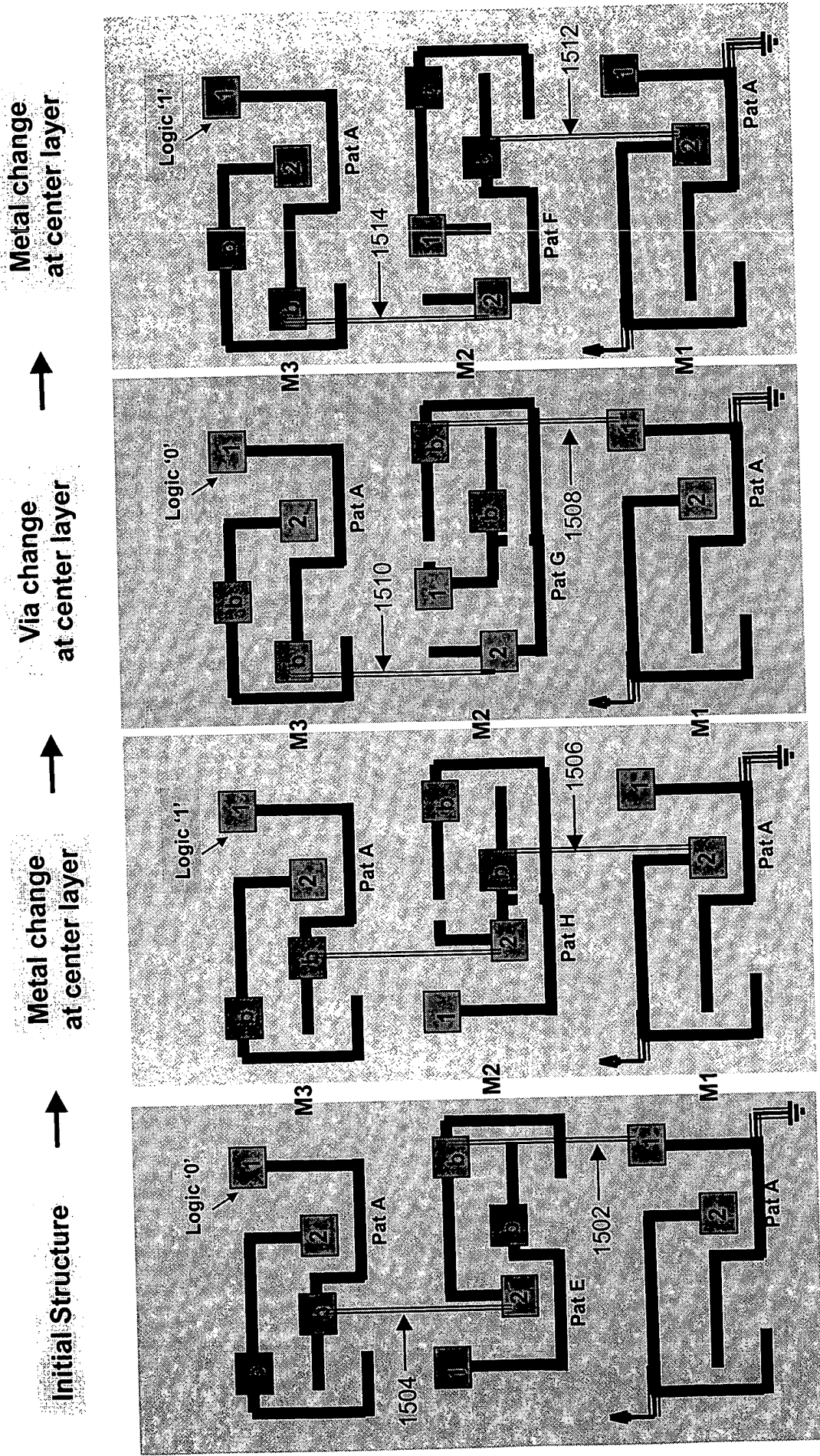


FIG. 15A

FIG. 15B

FIG. 15C

FIG. 15D

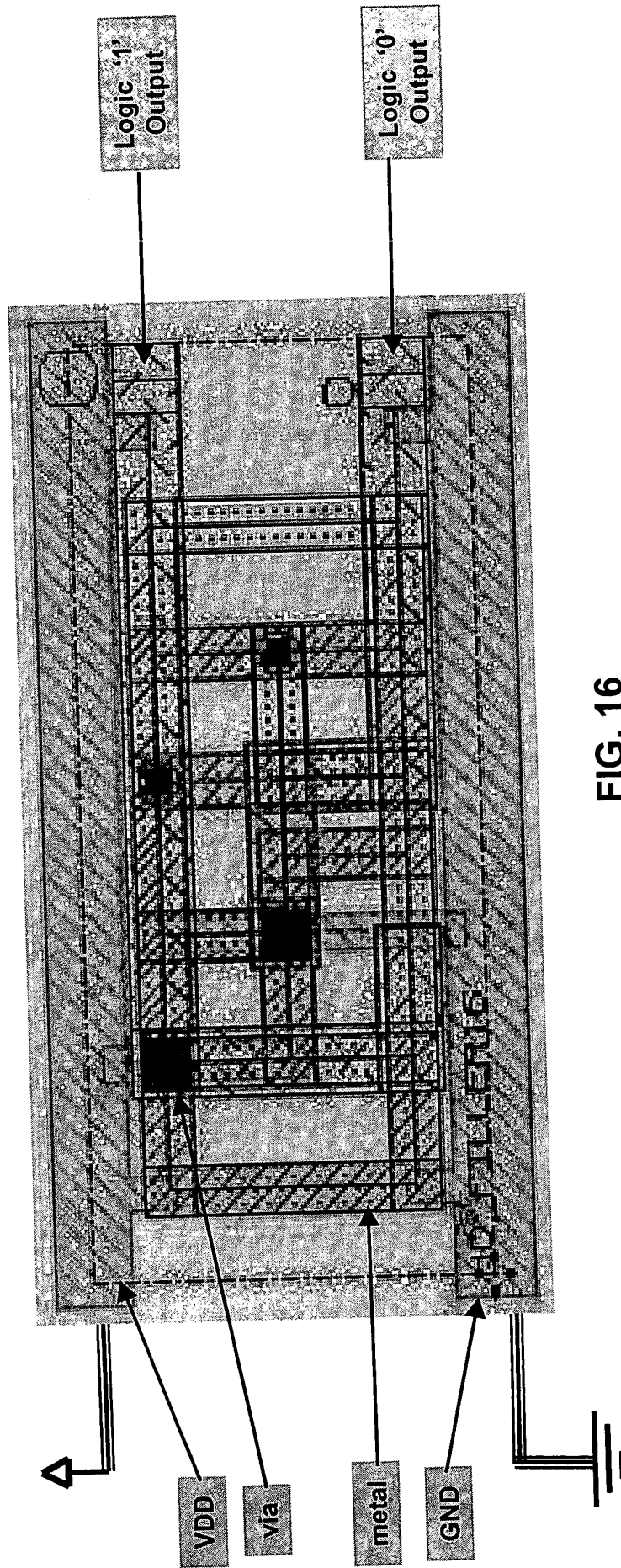


FIG. 16

FIG. 17A

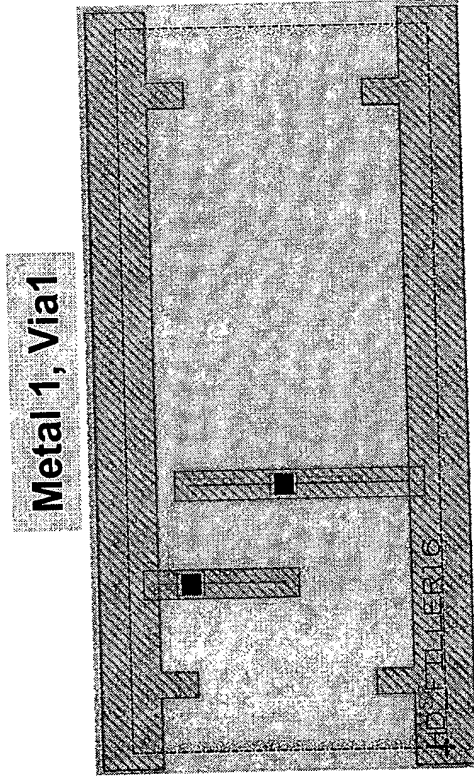
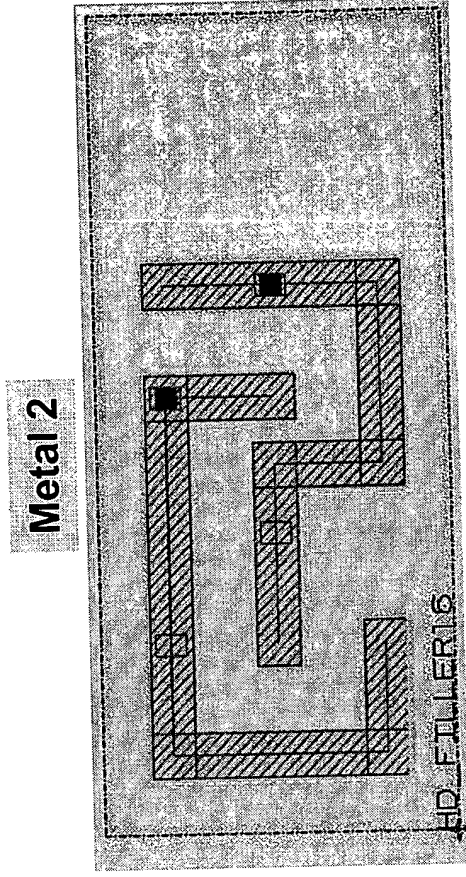


FIG. 17B



Metal 1, Via1,
Metal 2

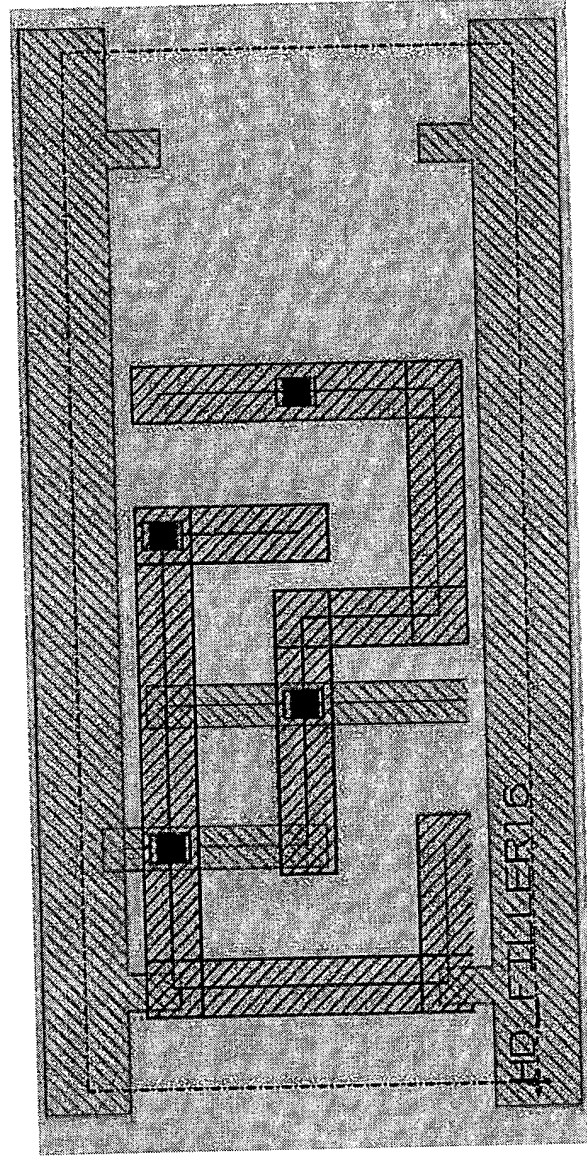


FIG. 17C

FIG. 18A

Metal 2, Via2

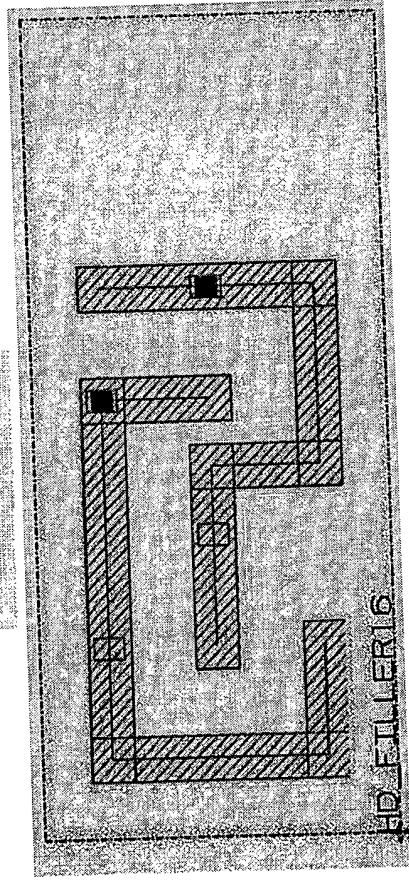
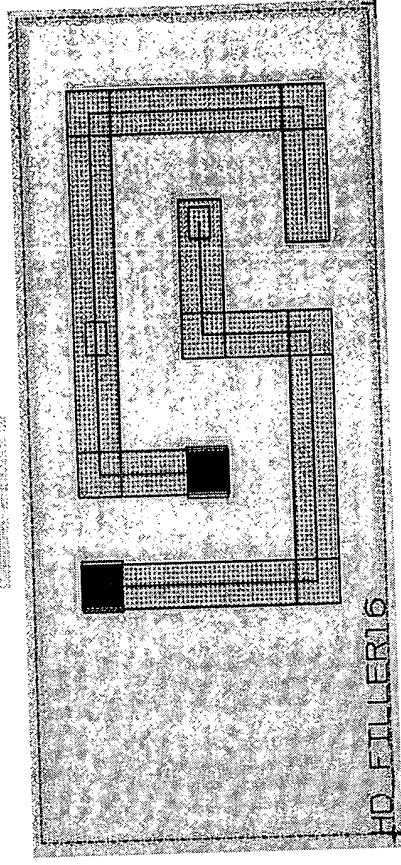


FIG. 18B

Metal 3



Metal 2, Via2,
Metal 3

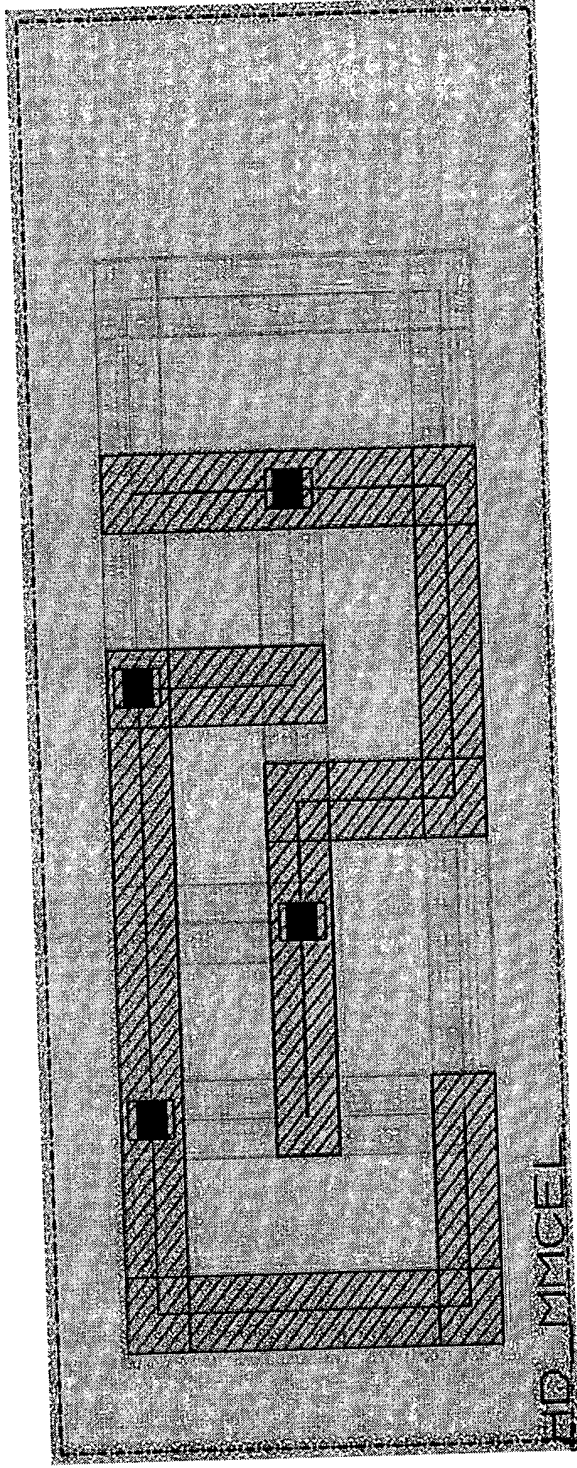


FIG. 18C

FIG. 19B

Metal 4

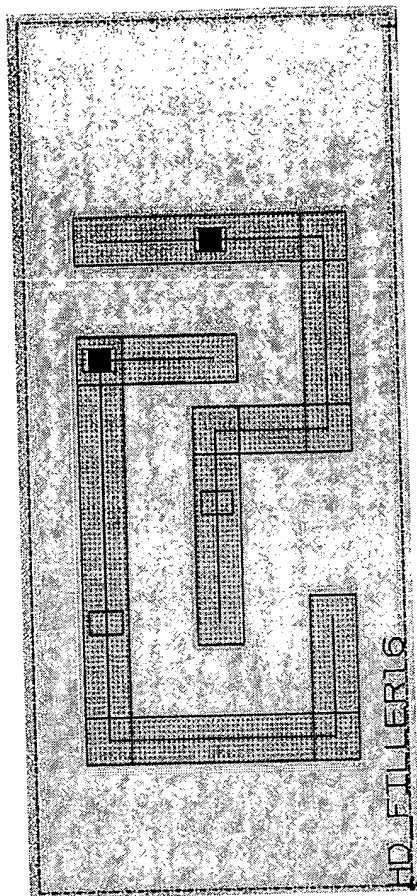
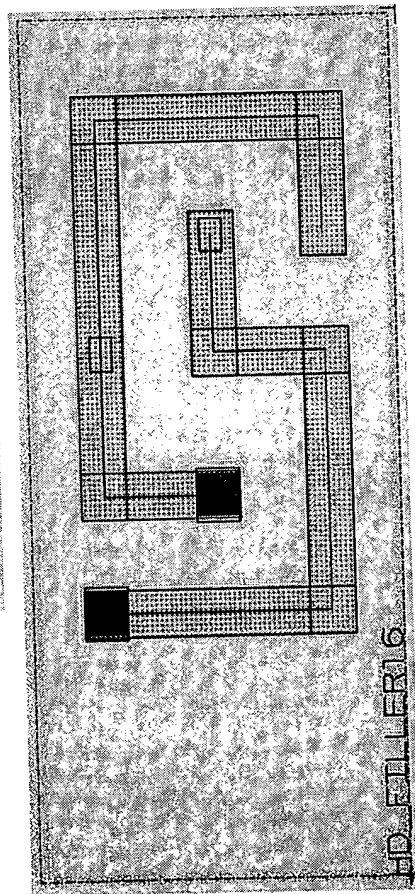


FIG. 19A

Metal 3, Via3



Metal 3, Via3,
Metal 4

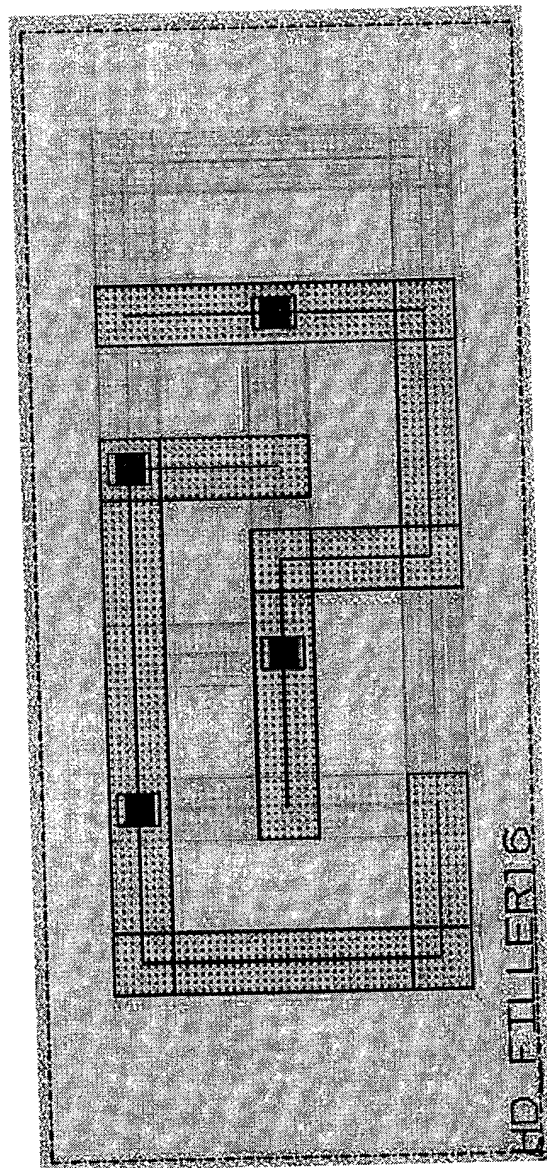


FIG. 19C

FIG. 20A

Metal 4, Via4

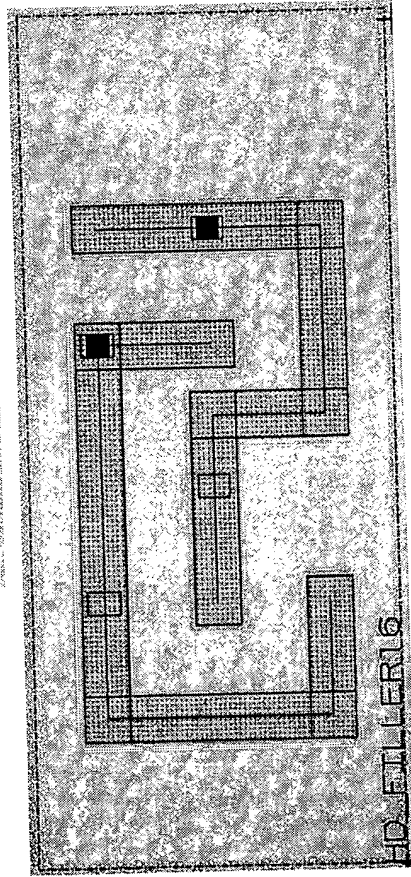


FIG. 20B

Metal 5

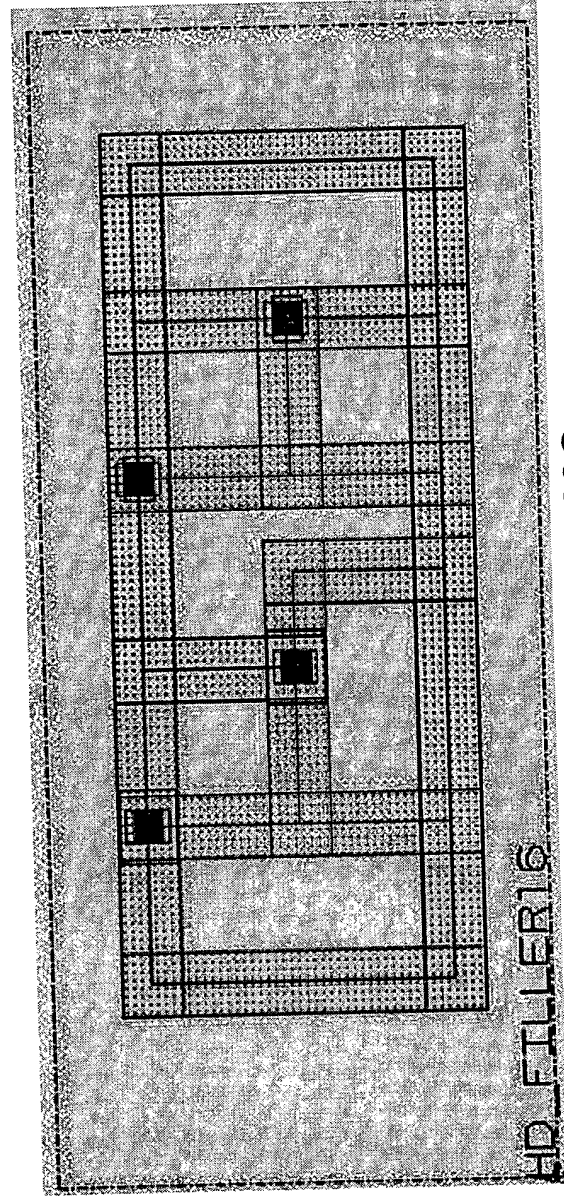
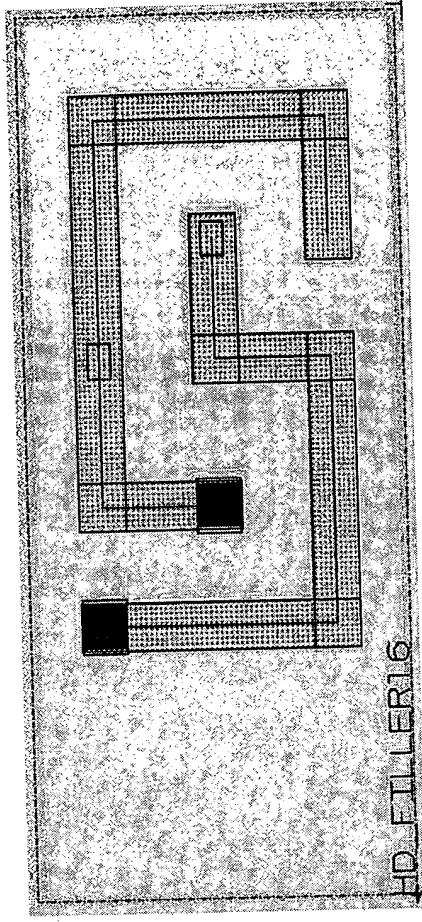


FIG. 20C

Metal 4, Via4,
Metal 5

FIG. 21B

Metal 6

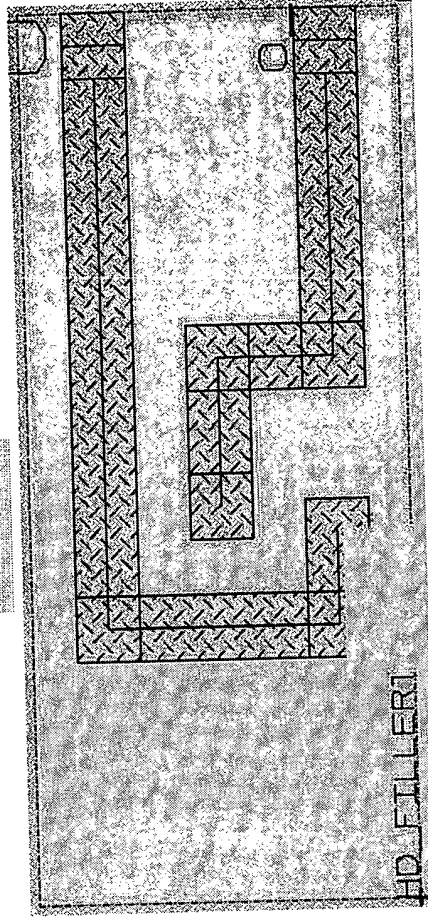
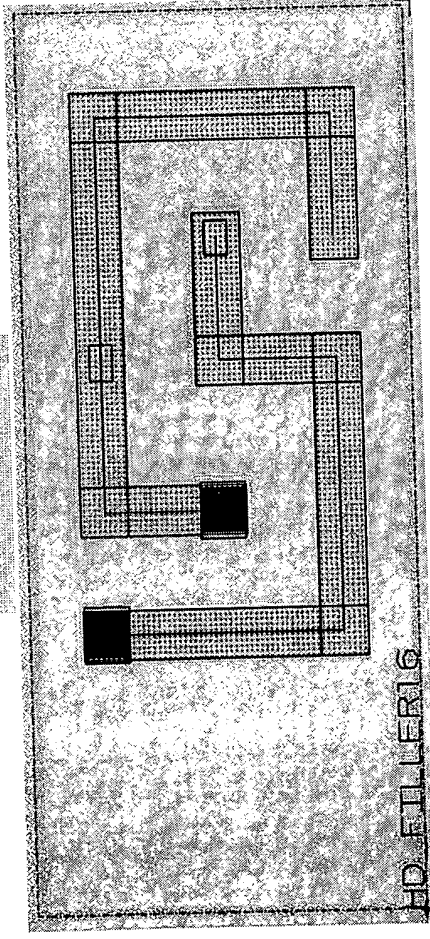


FIG. 21A

Metal 5, Via5



Metal 5, Via5,
Metal 6

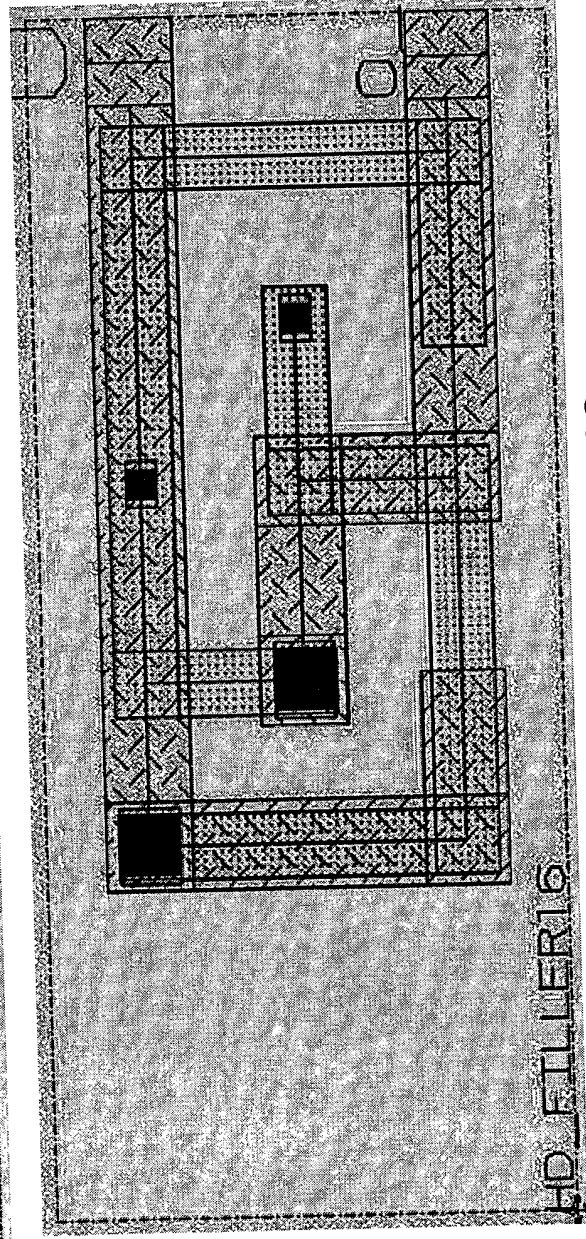


FIG. 21C

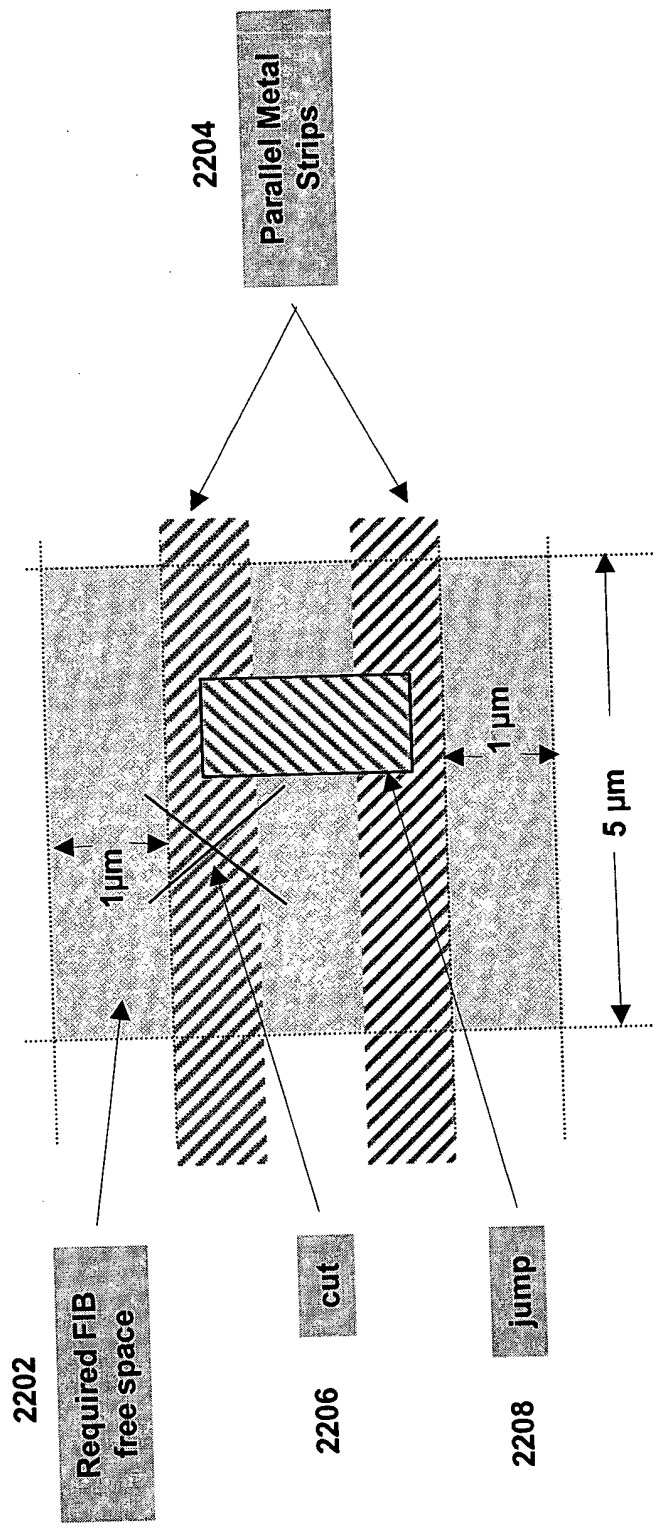


FIG. 22